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L1: Entry 1 of 2

File: EPAB

Oct 24, 1996

PUB-NO: WO009633321A1

DOCUMENT-IDENTIFIER: WO 9633321 A1

TITLE: VAPOUR BARRIER FOR USE IN THE HEAT INSULATION OF BUILDINGS

PUBN-DATE: October 24, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

KUENZEL, HARTWIG

DE

GROSSKINSKY, THEO

DE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

FRAUNHOFER GES FORSCHUNG

DE

KUENZEL HARTWIG

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GROSSKINSKY THEO

DE

APPL-NO: DE09600705

APPL-DATE: April 18, 1996

PRIORITY-DATA: DE19514420A (April 19, 1995)

INT-CL (IPC): E04 B 1/66; E04 D 13/16

EUR-CL (EPC): E04B001/66; E04D013/16

ABSTRACT:

CHG DATE=19990617 STATUS=O>The invention relates to a vapour barrier for use in the heat insulation of buildings, especially for use in new buildings and the renovation of old ones. The vapour barrier of the invention can effect water vapour exchange in various environmental conditions. This is accomplished by the use as the essential material of a material having a water vapour diffusion resistance depending on the environmental humidity and also had adequate tensile and tear strength.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC
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☐ 2. Document ID: CN 1185821 A WO 9633321 A1 AU 9653318 A DE 19514420 C1 EP 821755 A1 NO 9704807 A CZ 9703218 A3 SK 9701420 A3 AU 695567 B NZ 305338 A BR 9608141 A HU 9802610 A2 JP 11504088 W KR 98703897 A MX 9707769 A1 NO 308548 B1 EP 821755 B1 RO 116102 B1 DE 59606169 G ES 2153958 T3

L1: Entry 2 of 2

File: DWPI

Jun 24, 1998

DERWENT-ACC-NO: 1996-485819

DERWENT-WEEK: 200255

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TITLE: Vapour barrier for use in thermal insulation of buildings - comprises film or coating of material with water vapour diffusion resistance which is dependent on environmental humidity

INVENTOR: GROSSKINSKY, T; KUNZEL, H ; KUENZEL, H ; KUENZEL, H M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

FRAUNHOFER GES FOERDERUNG ANGEWANDTEN

FRAU

GIPS-SCHUELE-STIFTUNG

GIPSN

PRIORITY-DATA: 1995DE-1014420 (April 19, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1185821 A	June 24, 1998		000	E04B001/66
<u>WO 9633321 A1</u>	October 24, 1996	G	019	E04B001/66
AU 9653318 A	November 7, 1996		000	E04B001/66
DE 19514420 C1	March 6, 1997		003	E04B001/78
EP 821755 A1	February 4, 1998	G	000	E04B001/66
NO 9704807 A	December 19, 1997		000	E04B000/00
CZ 9703218 A3	February 18, 1998		000	E04B001/66
SK 9701420 A3	February 4, 1998		000	E04B001/66
AU 695567 B	August 13, 1998		000	E04B001/66
NZ 305338 A	December 23, 1998		000	E04B001/66
BR 9608141 A	February 9, 1999		000	E04B001/66
HU 9802610 A2	March 29, 1999		000	E04B001/66
JP 11504088 W	April 6, 1999		012	E04B001/66
KR 98703897 A	December 5, 1998		000	E04B001/66
MX 9707769 A1	June 1, 1998		000	E04B001/66
NO 308548 B1	September 25, 2000		000	E04B001/66
EP 821755 B1	November 29, 2000	G	000	E04B001/66
RO 116102 B1	October 30, 2000		000	E04B001/66
DE 59606169 G	January 4, 2001		000	E04B001/66
ES 2153958 T3	March 16, 2001		000	E04B001/66

DESIGNATED-STATES: AL AM AU BB BG BR CA CN CZ EE GE HU IS JP KG KP KR LK LR LT LV MD
MG MK MN MX NO NZ PL RO SG SI SK TR TT UA US UZ VN AT BE CH DE DK EA ES FI FR GB GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG AT BE CH DE DK ES FI FR GB IE IT LI LT LV
NL SE SI AT BE CH DE DK ES FI FR GB IE IT LI LT LV NL SE SI

CITED-DOCUMENTS: 1.Jnl.Ref; DE 3235246 ; DE 3423766 ; EP 217717 ; EP 46942 ; FR
2476669 ; GB 1598807 ; JP 62074648 ; US 3445322

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CN 1185821A	April 18, 1996	1996CN-0194268	
WO 9633321A1	April 18, 1996	1996WO-DE00705	
AU 9653318A	April 18, 1996	1996AU-0053318	
AU 9653318A		WO 9633321	Based on
DE 19514420C1	April 19, 1995	1995DE-1014420	
EP 821755A1	April 18, 1996	1996EP-0909977	
EP 821755A1	April 18, 1996	1996WO-DE00705	
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NO 9704807A	April 18, 1996	1996WO-DE00705	
NO 9704807A	October 17, 1997	1997NO-0004807	
CZ 9703218A3	April 18, 1996	1996WO-DE00705	
CZ 9703218A3	April 18, 1996	1997CZ-0003218	
CZ 9703218A3		WO 9633321	Based on
SK 9701420A3	April 18, 1996	1996WO-DE00705	
SK 9701420A3	April 18, 1996	1997SK-0001420	
AU 695567B	April 18, 1996	1996AU-0053318	
AU 695567B		AU 9653318	Previous Publ.
AU 695567B		WO 9633321	Based on
NZ 305338A	April 18, 1996	1996NZ-0305338	
NZ 305338A	April 18, 1996	1996WO-DE00705	
NZ 305338A		WO 9633321	Based on
BR 9608141A	April 18, 1996	1996BR-0008141	
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HU 9802610A2	April 18, 1996	1996WO-DE00705	
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HU 9802610A2		WO 9633321	Based on
JP 11504088W	April 18, 1996	1996JP-0531403	
JP 11504088W	April 18, 1996	1996WO-DE00705	
JP 11504088W		WO 9633321	Based on
KR 98703897A	April 18, 1996	1996WO-DE00705	
KR 98703897A	October 15, 1997	1997KR-0707298	
KR 98703897A		WO 9633321	Based on
MX 9707769A1	October 9, 1997	1997MX-0007769	
NO 308548B1	April 18, 1996	1996WO-DE00705	
NO 308548B1	October 17, 1997	1997NO-0004807	
NO 308548B1		NO 9704807	Previous Publ.
EP 821755B1	April 18, 1996	1996EP-0909977	
EP 821755B1	April 18, 1996	1996WO-DE00705	
EP 821755B1		WO 9633321	Based on
RO 116102B1	April 18, 1996	1996WO-DE00705	
RO 116102B1	April 18, 1996	1997RO-0001907	
RO 116102B1		WO 9633321	Based on
DE 59606169G	April 18, 1996	1996DE-0506169	
DE 59606169G	April 18, 1996	1996EP-0909977	
DE 59606169G	April 18, 1996	1996WO-DE00705	
DE 59606169G		EP 821755	Based on
DE 59606169G		WO 9633321	Based on
ES 2153958T3	April 18, 1996	1996EP-0909977	
ES 2153958T3		EP 821755	Based on

EP 821755 B1 INT-CL (IPC): B32B 7/02; B32B 27/34; E04B 0/00; E04B 1/66; E04B 1/78;

E04D 13/16; E04F 13/00

ABSTRACTED-PUB-NO: EP 821755B
BASIC-ABSTRACT:

A vapour barrier for use in the thermal insulation of buildings, consisting at least partly of material (I) having a water vapour diffusion resistance (sd) which is dependent on the ambient humidity, with sd values of 2-5 m and less than 1 m diffusion-equiv. air gap at 30-50% RH and 60-80% RH resp.

Pref. material (I) may consist of film or a coating of polymer on a base material, pref. a substrate with a low water vapour diffusion resistance, esp. pref. a fibre-reinforced cellulose substrate. Material (I) may also be sandwiched between two layers of base material. Pref. film consists of polyamide 6, 4 or 3, with a film thickness of 10 μ m to 2 mm, pref. 20-100 μ m. Pref. coating material is polyvinyl alcohol, plastic dispersion, methylcellulose, linseed oil alkyd resin, bone glue or a protein deriv.

USE - Used as a water vapour barrier in the thermal insulation of buildings, esp. for use in new buildings and in the renovation of old buildings.

ADVANTAGE - Ensures water vapour exchange between the outside and inside of the building under different environmental conditions, to prevent excessive build-up of moisture and consequent damage to timber etc.

ABSTRACTED-PUB-NO:

WO 9633321A

EQUIVALENT-ABSTRACTS:

A vapour barrier for use in the thermal insulation of buildings, consisting at least partly of material (I) having a water vapour diffusion resistance (sd) which is dependent on the ambient humidity, with sd values of 2-5 m and less than 1 m diffusion-equiv. air gap at 30-50% RH and 60-80% RH resp.

Pref. material (I) may consist of film or a coating of polymer on a base material, pref. a substrate with a low water vapour diffusion resistance, esp. pref. a fibre-reinforced cellulose substrate. Material (I) may also be sandwiched between two layers of base material. Pref. film consists of polyamide 6, 4 or 3, with a film thickness of 10 μ m to 2 mm, pref. 20-100 μ m. Pref. coating material is polyvinyl alcohol, plastic dispersion, methylcellulose, linseed oil alkyd resin, bone glue or a protein deriv.

USE - Used as a water vapour barrier in the thermal insulation of buildings, esp. for use in new buildings and in the renovation of old buildings.

ADVANTAGE - Ensures water vapour exchange between the outside and inside of the building under different environmental conditions, to prevent excessive build-up of moisture and consequent damage to timber etc.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: VAPOUR BARRIER THERMAL INSULATE BUILD COMPRISE FILM COATING MATERIAL
WATER VAPOUR DIFFUSION RESISTANCE DEPEND ENVIRONMENT HUMIDITY

DERWENT-CLASS: A93 P73 Q43 Q45

CPI-CODES: A12-R06;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P0646 P1934 P0635 F70 D01 D11 D10 D50 D86 ; S9999 S1285*R
Polymer Index [1.2] 018 ; P1945 P1934 P0635 D01 D10 D11 D50 D84 F70 F93 ; S9999
S1285*R Polymer Index [1.3] 018 ; D01 D11 D10 D50 D83 ; P1934*R P0635 D01 D50 F70 ;
S9999 S1285*R Polymer Index [1.4] 018 ; ND01 ; Q9999 Q6826*R ; K9676*R ; K9574 K9483
Polymer Index [1.5] 018 ; Q9999 Q9143 ; B9999 B4864 B4853 B4740 ; B9999 B5243*R
B4740 Polymer Index [2.1] 018 ; P1707 P1694 D01 Polymer Index [2.2] 018 ; G2200
G2186 D01 ; P0840 P0839 F41 D01 D63 ; H0011*R Polymer Index [2.3] 018 ; G3714*R
P0599 D01 F70 ; R24033 G3714 P0599 D01 F70 Polymer Index [2.4] 018 ; P0000 ; S9999

S1025 S1014 Polymer Index [2.5] 018 ; ND01 ; Q9999 Q6826*R ; K9676*R ; K9574 K9483
Polymer Index [2.6] 018 ; Q9999 Q7114*R ; Q9999 Q9143 ; B9999 B4864 B4853 B4740
Polymer Index [3.1] 018 ; R01852*R G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D86
F24 F29 F26 F34 H0293 P0599 G3623 Polymer Index [3.2] 018 ; ND01 ; Q9999 Q6826*R ;
K9676*R ; K9574 K9483 Polymer Index [3.3] 018 ; K9892 Polymer Index [3.4] 018 ; A999
A419 ; S9999 S1070*R Polymer Index [4.1] 018 ; G3601*R P0599 D01 ; R24071 G3601
P0599 D01 Polymer Index [4.2] 018 ; ND01 ; Q9999 Q6826*R ; K9676*R ; K9574 K9483
Polymer Index [4.3] 018 ; Q9999 Q6860 Q6826 ; K9563 K9483

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-152306

Non-CPI Secondary Accession Numbers: N1996-409208

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC
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